

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,295	07/14/2003	Michael Lee	NKTZ 2 00061	6308	
7	590 11/19/2004	EXAMINER			
Scott A. McCollister, Esq.			BLAU, STEPHEN LUTHER		
Fay, Sharpe, Fa	agan, Minnich & McKee	e, LLP	<u> </u>		
7th Floor			ART UNIT	PAPER NUMBER	
1100 Superior Avenue			3711		
Cleveland, OF	I 44114-2518				

DATE MAILED: 11/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)			
Office Action Summary		10/619,295		LEE, MICHAEL			
		Examiner		Art Unit			
		Stephen L. Blau		3711			
7 Period for F	The MAILING DATE of this communication a Reply	ppears on the cover s	heet with the co	orrespondence ac	idress		
THE MA - Extension after SIX - If the per - If NO per - Failure to Any reply	RTENED STATUTORY PERIOD FOR REP ILING DATE OF THIS COMMUNICATION ns of time may be available under the provisions of 37 CFR 12 (6) MONTHS from the mailing date of this communication. iod for reply specified above is less than thirty (30) days, a re- iod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by statudary received by the Office later than three months after the mail atent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however ply within the statutory minim d will apply and will expire SIX tte, cause the application to be	or, may a reply be time um of thirty (30) days (6) MONTHS from the ecome ABANDONED	ely filed will be considered time he mailing date of this c 0 (35 U.S.C. § 133).			
Status							
1) 🛛 R	esponsive to communication(s) filed on 26	August 2004.	•				
2a)⊠ Th	This action is FINAL . 2b) ☐ This action is non-final.						
3) <u></u> Si)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
clo	osed in accordance with the practice under	Ex parte Quayle, 19	35 C.D. 11, 45	3 O.G. 213.			
Disposition	of Claims						
4)⊠ CI	aim(s) <u>6,7,9,10,14 and 16-26</u> is/are pendin	g in the application.					
4a) Of the above claim(s) is/are withdr	awn from considerati	on.				
5)□ CI	aim(s) is/are allowed.						
	aim(s) <u>6,7,9,10,14 and 16-26</u> is/are rejecte	ed.					
·	aim(s) is/are objected to.	4 1 42					
8) <u> </u>	aim(s) are subject to restriction and	or election requireme	ent.				
Application	Papers						
9)∐ Th	e specification is objected to by the Examir	ner.					
10)∐ Th	e drawing(s) filed on is/are: a)□ ad	cepted or b) object	ted to by the E	xaminer.			
•	plicant may not request that any objection to th	-,,	-	` '			
	placement drawing sheet(s) including the corre e oath or declaration is objected to by the I	•			• •		
Priority und	ler 35 U.S.C. § 119						
12)□ Ac a)□ / 1.[2.[knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the Copie	nts have been receivents have been receivents have been receivents have	ed. ed in Applicatio e been received	on No	Stage		
* See	the attached detailed Office action for a lis		• •	d.			
Attachment(s)							
	References Cited (PTO-892)		terview Summary (
3) 🔲 Informati	Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449 or PTO/SB/08) (s)/Mail Date	3) 5) 🔲 No	per No(s)/Mail Dat otice of Informal Pa her:	te atent Application (PT0	O-152)		

Application/Control Number: 10/619,295 Page 2

Art Unit: 3711

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 9 recites the limitation "the elastomer" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.
- 3. The change to claim 19 is agreed with and the rejection under 35 U.S.C. 112, second paragraph, is removed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/619,295

Art Unit: 3711

5. Claims 14, 16-17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imamoto in view of Official Notice.

Imamoto discloses a muscle back iron having head with a face, a back, a back having an upper portion substantially parallel to a face in the form of the back of the face plate (40) in the upper portion of the head (Fig. 1(b)), a back having an extra mass portion positioned toward the bottom of the head wherein the extra mass portion defines a cavity therein and a cavity entirely enclosed by the head (Fig. 1(b)), a elastomer being disposed in the cavity (Ref. No. 30, (0038)), a substantially portion of the extra mass portion being positioned below a cavity, and the cavity has a width in cross-section being slightly less than a width of a head in the form near the bottom of the cavity (Fig. 1(b)).

The examiner takes Official Notice that it is well known to one skilled in the art have a club having a shaft attached to a head in order to increase the velocity of a head at impact.

6. Claims 6-7, 10, 20, 22-24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Rife.

Yamada discloses a surface being near a top edge and substantially parallel to a front surface (Figs. 2 and 6), a cavity not visible from an exterior of a club (Figs. 2-3), a cavity vertically spaced from a sole (Fig. 2), a muscle back portion covering at least half of the vertical height of a rear surface (Fig. 2), and an insert filled with foamed synthetic resin (Col. 4, Lns. 41-43).

Art Unit: 3711

Yamada lacks an upper surface as shown in figures 2 and 6 being the same across the length of a head forming a blade, muscle back surface having an upper ledge that generally follows the contour of the top edge and a muscle back portion covering at least half of the surface area of the rear surface.

Rife discloses a muscle back surface having an upper ledge that generally follows the contour of the top edge (Figs. 9, 14), a muscle back portion covering at least half of the surface area of the rear surface (Fig. 14) and an upper surface being the same across the length of a head forming a blade (Fig. 9). In view of the reference of Rife it would have been obvious to modify the head of Yamada to have an upper surface as shown in figures 2 and 6 being the same across the length of a head in order to simplify the manufacturing process of a head by making the upper section the same across the length of a head. In view of the reference of Rife it would have been obvious to modify the head of Yamada to have a muscle back surface having an upper ledge that generally follows the contour of the top edge in order to have a profile of a muscle back portion in a lower portion of a head which is used in the art. In view of the reference of Rife it would have been obvious to modify the head of Yamada to have a muscle back portion covering at least half of the surface area of the rear surface in order to maximize that amount of weight added behind a face to maximize the amount of energy transferred to a ball at impact.

Application/Control Number: 10/619,295

Art Unit: 3711

7. Claims 14, 18, 21 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Rife as applied to claims 6-7, 10, 20, 22-24, and 26 above, and further in view of Motomiya.

Yamada discloses a cavity filled with foam synthetic resin (Col. 4, Lns. 41-43) and a head formed of metal (Col. 3, Lns. 1-9) and fiber with synthetic resin (Col. 3, Lns. 9-20).

Yamada lacks a high rebound elastomer filling a cavity and a head attached to a shaft. Motomiya discloses filling a sealed space with an elastic filler material such as foamed urethane and rubber (Col. 2, Lns. 14-16) and a shaft attached to a head (Fig. 3). In view of the patent of Motomiya it would have been obvious to modify the head of Yamada to have a high rebound elastomer filling a cavity in the form of a synthetic foam being urethane and rubber in order to provide vibration dampening to a head at impact. In view of the patent of Motomiya it would have been obvious to modify the head of Yamada to have a head attached to a shaft in order to increase the velocity of a head at impact.

8. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Rife as applied to claims 6-7, 10, 20, 22-24, and 26 above, and further in view of Motomiya and Viollaz.

Yamada discloses a cavity filled with foam synthetic resin (Col. 4, Lns. 41-43).

Yamada lacks a polyurethane elastomer. Motomiya discloses filling a sealed space with an elastic filler material such as foamed urethane and rubber (Col. 2, Lns.

Application/Control Number: 10/619,295 Page 6

Art Unit: 3711

14-16). Viollaz discloses a cavity filled with a foamed urethane in the form of polyurethane (Col. 2, Lns. 46-50). In view of the patent of Motomiya it would have been obvious to modify the head of Yamada to have a high rebound elastomer filling a cavity in the form of a synthetic foam being urethane and rubber in order to provide vibration dampening to a head at impact. In view of the patent of Viollaz it would have been obvious to modify the head of Yamada to have the cavity filled with polyurethane in order to utilize a foamed urethane used in the market place.

Reissue Applications

9. The argument that it is improper to combine the references of Rife with Yamada since Rife shows no embodiment of a cavity not visible is disagreed with. The examiner agrees that it would not be obvious to modify Rife to have a cavity not visible. But the examiner believes it would be obvious to modify Yamada with a top section as shown in figures 2 and 6 to be the same cross section along the length of a head as Rife disclose. Yamada clearly will have a cross section along the length of a head and clearly the one shown in figures 2 and 6 would be an obvious selection. As such the top section would have blade. The argument Yamada fails to disclose a back surface being substantially parallel to the front surface is disagreed with. Figures 2 and 6 clearly show a back surface near the top edge being substantially parallel to a front surface. The top of figures 2 and 6 of Yamada are very close to the top surface as shown in figure 5 of this application.

Application/Control Number: 10/619,295

Art Unit: 3711

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Page 7

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Blau whose telephone number is (571) 272-4406. The examiner is available Monday through Friday from 8 a.m. to 4:30 p.m.. If the examiner is unavailable you can contact his supervisor Greg Vidovich whose telephone number is (571) 272-4415.

slb/ 17 November 2004